

Hui-Lei Yu

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,286
citations

279798

23
h-index

414414

32
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69
all docs

69
docs citations

69
times ranked

1303
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile Production of (+)-Aristolochene and (+)-Bicyclogermacrene in <i>Escherichia coli</i> Using Newly Discovered Sesquiterpene Synthases from <i>Penicillium expansum</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 5860-5868.	5.2	4
2	Colorimetric High-Throughput Screening Method for Directed Evolution of Prazole Sulfide Monooxygenase. <i>ChemBioChem</i> , 2022, 23, .	2.6	4
3	A High-Throughput Screening Method for the Directed Evolution of Hydroxynitrile Lyase towards Cyanohydrin Synthesis. <i>ChemBioChem</i> , 2021, 22, 996-1000.	2.6	6
4	Identification two key residues at the intersection of domains of a thioether monooxygenase for improving its sulfoxidation performance. <i>Biotechnology and Bioengineering</i> , 2021, 118, 737-744.	3.3	11
5	A Baeyer-Villiger monooxygenase from <i>Cupriavidus basilensis</i> catalyzes asymmetric synthesis of (R)-lansoprazole and other pharmaco-sulfoxides. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 3169-3180.	3.6	17
6	Protein engineering of thioether monooxygenase to improve its thermostability for enzymatic synthesis of chiral sulfoxide. <i>Molecular Catalysis</i> , 2021, 509, 111625.	2.0	5
7	Confining Enzyme Clusters in Bacteriophage P22 Enhances Cofactor Recycling and Stereoselectivity for Chiral Alcohol Synthesis. <i>ACS Catalysis</i> , 2021, 11, 10487-10493.	11.2	25
8	Secretory expression of cyclohexanone monooxygenase by methylotrophic yeast for efficient omeprazole sulfide bio-oxidation. <i>Bioresources and Bioprocessing</i> , 2021, 8, .	4.2	2
9	Attenuated substrate inhibition of a haloketone reductase via structure-guided loop engineering. <i>Journal of Biotechnology</i> , 2020, 308, 141-147.	3.8	7
10	One-pot biocatalytic route from cycloalkanes to α,β -dicarboxylic acids by designed <i>Escherichia coli</i> consortia. <i>Nature Communications</i> , 2020, 11, 5035.	12.8	60
11	Engineering <i>Bacillus subtilis</i> Isoleucine Dioxygenase for Efficient Synthesis of (2 <i>S</i> ,3 <i>R</i> ,4 <i>S</i>)-4-Hydroxyisoleucine. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 14555-14563.	5.2	7
12	Reprogramming Epoxide Hydrolase to Improve Enantioconvergence in Hydrolysis of Styrene Oxide Scaffolds. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 4699-4706.	4.3	6
13	Site-directed mutagenesis of coenzyme-independent carotenoid oxygenase CSO2 to enhance the enzymatic synthesis of vanillin. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 3897-3907.	3.6	15
14	Double Enzyme-Catalyzed One-Pot Synthesis of Enantiocomplementary Vicinal Fluoro Alcohols. <i>Organic Letters</i> , 2020, 22, 5446-5450.	4.6	8
15	Enantiocomplementary C-H Bond Hydroxylation Combining Photo-Catalysis and Whole-Cell Biocatalysis in a One-Pot Cascade Process. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 821-825.	2.4	19
16	Enantioselective Bioamination of Aromatic Alkanes Using Ammonia: A Multienzymatic Cascade Approach. <i>ChemCatChem</i> , 2020, 12, 2077-2082.	3.7	12
17	Structure-Guided Tuning of a Hydroxynitrile Lyase to Accept Rigid Pharmaco Aldehydes. <i>ACS Catalysis</i> , 2020, 10, 5757-5763.	11.2	20
18	Enzymatic Preparation of the Chiral (<i>S</i>)-Sulfoxide Drug Esomeprazole at Pilot-Scale Levels. <i>Organic Process Research and Development</i> , 2020, 24, 1124-1130.	2.7	33

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19	One Pot Asymmetric Synthesis of (<i>R</i>)-Phenylglycinol from Racemic Styrene Oxide via Cascade Biocatalysis. <i>ChemCatChem</i> , 2019, 11, 3802-3807.	3.7	22
20	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
21	Engineering of Cyclohexanone Monooxygenase for the Enantioselective Synthesis of (<i>S</i>)-Omeprazole. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7218-7226.	6.7	42
22	Enantiocomplementary decarboxylative hydroxylation combining photocatalysis and whole-cell biocatalysis in a one-pot cascade process. <i>Green Chemistry</i> , 2019, 21, 1907-1911.	9.0	31
23	One-Pot Synthesis of Phenylglyoxylic Acid from Racemic Mandelic Acids via Cascade Biocatalysis. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 2946-2953.	5.2	30
24	Bioamination of alkane with ammonium by an artificially designed multienzyme cascade. <i>Metabolic Engineering</i> , 2018, 47, 184-189.	7.0	35
25	An engineered <i>Pseudomonas putida</i> can simultaneously degrade organophosphates, pyrethroids and carbamates. <i>Science of the Total Environment</i> , 2018, 628-629, 1258-1265.	8.0	66
26	Enhancing the Catalytic Performance of a CYP116B Monooxygenase by Transdomain Combination Mutagenesis. <i>ChemCatChem</i> , 2018, 10, 2962-2968.	3.7	10
27	Structural investigation of the enantioselectivity and thermostability mechanisms of esterase RhEst1. <i>Journal of Molecular Graphics and Modelling</i> , 2018, 85, 182-189.	2.4	6
28	Engineering P450 ^{LaMO} stereospecificity and product selectivity for selective C-H oxidation of tetralin-like alkylbenzenes. <i>Catalysis Science and Technology</i> , 2018, 8, 4638-4644.	4.1	17
29	Enhancing the Catalytic Performance of a CYP116B Monooxygenase by Transdomain Combination Mutagenesis. <i>ChemCatChem</i> , 2018, 10, 2927-2927.	3.7	0
30	Discovery of Two Native Baeyer-Villiger Monooxygenases for Asymmetric Synthesis of Bulky Chiral Sulfoxides. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	25
31	Regioselectivity Engineering of Epoxide Hydrolase: Near-Perfect Enantioconvergence through a Single Site Mutation. <i>ACS Catalysis</i> , 2018, 8, 8314-8317.	11.2	35
32	Efficient Synthesis of (<i>R</i>)-2-Chloro-1-(2,4-dichlorophenyl)ethanol with a Ketoreductase from <i>Scheffersomyces stipitis</i> CBS 6045. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 426-431.	4.3	37
33	Hydroxynitrile Lyase Isozymes from <i>Prunus communis</i> : Identification, Characterization and Synthetic Applications. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 1185-1193.	4.3	20
34	Engineering <i>Streptomyces coelicolor</i> Carbonyl Reductase for Efficient Atorvastatin Precursor Synthesis. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	27
35	Engineering of <i>d</i> -fructose-6-phosphate aldolase A for improved activity towards cinnamaldehyde. <i>Catalysis Science and Technology</i> , 2017, 7, 382-386.	4.1	9
36	Combinatorial metabolic engineering of <i>Pseudomonas putida</i> KT2440 for efficient mineralization of 1,2,3-trichloropropane. <i>Scientific Reports</i> , 2017, 7, 7064.	3.3	34

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37	Dehydrogenase-catalyzed Oxidation of Furans: Exploitation of Hemoglobin Catalytic Promiscuity. <i>ChemSusChem</i> , 2017, 10, 3524-3528.	6.8	30
38	Rapid probing of the reactivity of P450 monooxygenases from the CYP116B subfamily using a substrate-based method. <i>New Journal of Chemistry</i> , 2016, 40, 8928-8934.	2.8	10
39	Engineering <i>Pseudomonas putida</i> KT2440 for simultaneous degradation of carbofuran and chlorpyrifos. <i>Microbial Biotechnology</i> , 2016, 9, 792-800.	4.2	31
40	An engineered microorganism can simultaneously detoxify cadmium, chlorpyrifos, and β -hexachlorocyclohexane. <i>Journal of Basic Microbiology</i> , 2016, 56, 820-826.	3.3	14
41	Combinatorial evolution of phosphotriesterase toward a robust malathion degrader by hierarchical iteration mutagenesis. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2350-2357.	3.3	30
42	Metabolic Engineering of <i>Pseudomonas putida</i> KT2440 for Complete Mineralization of Methyl Parathion and β -Hexachlorocyclohexane. <i>ACS Synthetic Biology</i> , 2016, 5, 434-442.	3.8	54
43	Substrate channel evolution of an esterase for the synthesis of cilastatin. <i>Catalysis Science and Technology</i> , 2015, 5, 2622-2629.	4.1	16
44	Monoterpene hydroxylation with an artificial self-sufficient P450 utilizing a P450SMO reductase domain for the electron transfer. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 116, 78-82.	1.8	3
45	Significantly improved thermostability of a reductase CgKR1 from <i>Candida glabrata</i> with a key mutation at Asp 138 for enhancing bioreduction of aromatic β -keto esters. <i>Journal of Biotechnology</i> , 2015, 203, 54-61.	3.8	20
46	Enantioselective bioreductive preparation of chiral halohydrins employing two newly identified stereocomplementary reductases. <i>RSC Advances</i> , 2015, 5, 22703-22711.	3.6	28
47	Rational design of a carboxylic esterase RhEst1 based on computational analysis of substrate binding. <i>Journal of Molecular Graphics and Modelling</i> , 2015, 62, 319-324.	2.4	8
48	Efficient biosynthesis of rare natural product scopolamine using <i>E. coli</i> cells expressing a S14P/K97A mutant of hyoscyamine 6β -hydroxylase AaH6H. <i>Journal of Biotechnology</i> , 2015, 211, 123-129.	3.8	11
49	Increased Catalyst Productivity in β -Hydroxy Acids Resolution by Esterase Mutation and Substrate Modification. <i>ACS Catalysis</i> , 2014, 4, 1026-1031.	11.2	36
50	Unusually Broad Substrate Profile of Self-sufficient Cytochrome P450 Monooxygenase CYP116B4 from <i>Labrenzia aggregata</i> . <i>ChemBioChem</i> , 2014, 15, 2443-2449.	2.6	57
51	An ene reductase from <i>Clavispora lusitanae</i> for asymmetric reduction of activated alkenes. <i>Enzyme and Microbial Technology</i> , 2014, 56, 40-45.	3.2	18
52	Altering the Substrate Specificity of Reductase CgKR1 from <i>Candida glabrata</i> by Protein Engineering for Bioreduction of Aromatic β -Keto Esters. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 1943-1948.	4.3	27
53	Facile Access to Chiral Alcohols with Pharmaceutical Relevance Using a Ketoreductase Newly Mined from <i>Pichia guilliermondii</i> . <i>Chinese Journal of Chemistry</i> , 2013, 31, 349-354.	4.9	15
54	Highly enantioselective oxidation of phenyl methyl sulfide and its derivatives into optically pure (S)-sulfoxides with <i>Rhodococcus</i> sp. CCZU10-1 in an n-octane-water biphasic system. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 10329-10337.	3.6	22

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55	Resolution of racemic sulfoxides with high productivity and enantioselectivity by a <i>Rhodococcus</i> sp. strain as an alternative to biooxidation of prochiral sulfides for efficient production of enantiopure sulfoxides. <i>Bioresource Technology</i> , 2011, 102, 1537-1542.	9.6	23
56	Enzymatic Production of <i>l</i> -Menthol by a High Substrate Concentration Tolerable Esterase from Newly Isolated <i>Bacillus subtilis</i> ECU0554. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 405-414.	4.3	53
57	Discovery and Utilization of Biocatalysts for Chiral Synthesis: An Overview of Chinese Scientists Research and Development. , 2009, 113, 1-31.		3
58	Synthesis of novel salidroside esters by lipase-mediated acylation with various functional acyl groups. <i>Journal of Bioscience and Bioengineering</i> , 2008, 106, 65-68.	2.2	10
59	Environmentally benign synthesis of natural glycosides using apple seed meal as green and robust biocatalyst. <i>Journal of Biotechnology</i> , 2008, 133, 469-477.	3.8	32
60	Assembly of a Three-Dimensional Array of Glycoconjugates by Combinatorial Biocatalysis in Nonaqueous Media. <i>ACS Combinatorial Science</i> , 2008, 10, 79-87.	3.3	16