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List of Publications by Year
in descending order

45 papers	862 citations	471509 17 h-index	526287 27 g-index
47 all docs	47 docs citations	47 times ranked	865 citing authors

#	Article	IF	Citations
1	Efficient reductive desymmetrization of bulky 1,3-cyclodiketones enabled by structure-guided directed evolution of a carbonyl reductase. Nature Catalysis, 2019, 2, 931-941.	34.4	68
2	Adaptive laboratory evolution enhances methanol tolerance and conversion in engineered Corynebacterium glutamicum. Communications Biology, 2020, 3, 217.	4.4	52
3	Semiâ€“Rational Engineering a Carbonyl Reductase for the Enantioselective Reduction of Î²-Amino Ketones. ACS Catalysis, 2015, 5, 2452-2457.	11.2	46
4	Exploring the synthetic applicability of a new carboxylic acid reductase from Segniliparus rotundus DSM 44985. Journal of Molecular Catalysis B: Enzymatic, 2015, 115, 1-7.	1.8	42
5	An Unprecedented Effective Enzymatic Carboxylation of Phenols. ACS Catalysis, 2016, 6, 564-567.	11.2	42
6	Biocatalytic Access to 1,4-Diazepanes via Imine Reductase-Catalyzed Intramolecular Asymmetric Reductive Amination. ACS Catalysis, 2020, 10, 8780-8787.	11.2	42
7	CRISPR-assisted rational flux-tuning and arrayed CRISPRi screening of an l-proline exporter for l-proline hyperproduction. Nature Communications, 2022, 13, 891.	12.8	39
8	Characterization of new recombinant 3-ketosteroid-Î”1-dehydrogenases for the biotransformation of steroids. Applied Microbiology and Biotechnology, 2017, 101, 6049-6060.	3.6	37
9	Biocatalytic Route to Chiral 2-Substituted-1,2,3,4-Tetrahydroquinolines Using Cyclohexylamine Oxidase Muteins. ACS Catalysis, 2018, 8, 1648-1652.	11.2	28
10	Biocatalytic desymmetrization of 3-substituted glutaronitriles by nitrilases. A convenient chemoenzymatic access to optically active (S)-Pregabalin and (R)-Baclofen. Science China Chemistry, 2014, 57, 1164-1171.	8.2	27
11	Distinct Regioselectivity of Fungal P450 Enzymes for Steroidal Hydroxylation. Applied and Environmental Microbiology, 2019, 85, .	3.1	27
12	A Fungal P450 Enzyme from Thanatephorus cucumeris with Steroid Hydroxylation Capabilities. Applied and Environmental Microbiology, 2018, 84, .	3.1	26
13	Biotransformation Enables Innovations Toward Green Synthesis of Steroidal Pharmaceuticals. ChemSusChem, 2022, 15, .	6.8	24
14	Molecular Basis for the High Activity and Enantioselectivity of the Carbonyl Reductase from Sporobolomyces salmonicolor toward Î±-Haloacetophenones. ACS Catalysis, 2018, 8, 3525-3531.	11.2	23
15	Synthesis of Î±,Î²-unsaturated esters via a chemo-enzymatic chain elongation approach by combining carboxylic acid reduction and Wittig reaction. Beilstein Journal of Organic Chemistry, 2015, 11, 2245-2251.	2.2	21
16	Effect of smokeless tobacco products on human oral bacteria growth and viability. Anaerobe, 2016, 42, 152-161.	2.1	21
17	Flavin Oxidoreductaseâ€Mediated Regeneration of Nicotinamide Adenine Dinucleotide with Dioxygen and Catalytic Amount of Flavin Mononucleotide for Oneâ€Pot Multiâ€Enzymatic Preparation of Ursodeoxycholic Acid. Advanced Synthesis and Catalysis, 2019, 361, 2497-2504.	4.3	20
18	A new<scp>d</scp>-threonine aldolase as a promising biocatalyst for highly stereoselective preparation of chiral aromatic Î²-hydroxy-Î±-amino acids. Catalysis Science and Technology, 2017, 7, 5964-5973.	4.1	19

#	Article	IF	Citations
19	Structure-Guided Directed Evolution of a Carbonyl Reductase Enables the Stereoselective Synthesis of (2S,3S)-2,2-Disubstituted-3-hydroxycyclopentanones via Desymmetric Reduction. Organic Letters, 2020, 22, 3444-3448.	4.6	19
20	Engineering of l-threonine aldolase for the preparation of 4-(methylsulfonyl)phenylserine, an important intermediate for the synthesis of florfenicol and thiamphenicol. Enzyme and Microbial Technology, 2020, 137, 109551.	3.2	17
21	New product identification in the sterol metabolism by an industrial strain Mycobacterium neoaurum NRRL B-3805. Steroids, 2018, 132, 40-45.	1.8	16
22	Asymmetric Synthesis of Nâ€Substituted 1,2â€Amino Alcohols from Simple Aldehydes and Amines by Oneâ€Pot Sequential Enzymatic Hydroxymethylation and Asymmetric Reductive Amination. Angewandte Chemie - International Edition, 2022, 61, .	13.8	16
23	Efficient Biosynthesis of Ethyl (R)â€3â€Hydroxyglutarate through a Oneâ€Pot Bienzymatic Cascade of Halohydrin Dehalogenase and Nitrilase. ChemCatChem, 2015, 7, 1438-1444.	3.7	15
24	Efficient Biosynthesis of (R)â€or (S)â€2â€Hydroxybutyrate from <scp>l</scp>â€Threonine through a Synthetic Biology Approach. Advanced Synthesis and Catalysis, 2016, 358, 2923-2928.	4.3	15
25	New recombinant cyclohexylamine oxidase variants for deracemization of secondary amines by orthogonally assaying designed mutants with structurally diverse substrates. Scientific Reports, 2016, 6, 24973.	3.3	15
26	Growth-coupled evolution of phosphoketolase to improve l-glutamate production by Corynebacterium glutamicum. Applied Microbiology and Biotechnology, 2019, 103, 8413-8425.	3.6	14
27	Inverting the Enantiopreference of Nitrilaseâ€Catalyzed Desymmetric Hydrolysis of Prochiral Dinitriles by Reshaping the Binding Pocket with a Mirrorâ€Image Strategy. Angewandte Chemie - International Edition, 2021, 60, 3679-3684.	13.8	14
28	Improving the catalytic efficiency and stereoselectivity of a nitrilase from Synechocystis sp. PCC6803 by semi-rational engineering en route to chiral Î³-amino acids. Catalysis Science and Technology, 2019, 9, 1504-1510.	4.1	13
29	Synthesis of single stereoisomers of 2,2-disubstituted 3-hydroxycyclohexane-1-ones via enzymatic desymmetric reduction of the 1,3-cyclohexanediones. Green Synthesis and Catalysis, 2021, 2, 320-323.	6.8	12
30	Enzymatic Synthesis of a Key Intermediate for Rosuvastatin by Nitrilaseâ€Catalyzed Hydrolysis of Ethyl (R)â€4â€Cyanoâ€3â€hydroxybutyate at High Substrate Concentration. ChemCatChem, 2015, 7, 271-275.	3.7	11
31	Efficient microbial synthesis of key steroidal intermediates from bio-renewable phytosterols by genetically modified Mycobacterium fortuitum strains. Green Chemistry, 2019, 21, 4076-4083.	9.0	11
32	Highly Efficient Synthesis of Optically Pure (S)â€1â€phenylâ€1,2â€ethanediol by a Selfâ€Sufficient Whole Cell Biocatalyst. ChemistryOpen, 2015, 4, 483-488.	1.9	10
33	Asymmetric Synthesis of Nâ€Substituted Î³â€Amino Esters and Î³â€Lactams Containing Î±,Î³â€Stereogenic Centers via a Stereoselective Enzymatic Cascade. Advanced Synthesis and Catalysis, 2022, 364, 372-379.	4.3	10
34	Crystal Structures and Catalytic Mechanism of <scp>l</scp>â€erythroâ€3,5â€Diaminohexanoate Dehydrogenase and Rational Engineering for Asymmetric Synthesis of Î²â€Amino Acids. Angewandte Chemie - International Edition, 2021, 60, 10203-10210.	13.8	9
35	Accessing <scp>d</scp>â€Valine Synthesis by Improved Variants of Bacterial Cyclohexylamine Oxidase. ChemCatChem, 2018, 10, 387-390.	3.7	7
36	A sialic acid aldolase from Peptoclostridium difficile NAP08 with 4-hydroxy-2-oxo-pentanoate aldolase activity. Enzyme and Microbial Technology, 2016, 92, 99-106.	3.2	6

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37	Improving Catalytic Activity and Reversing Enantioâ€Specificity of Ï‰â€Transaminase by Semiâ€Rational Engineering en Route to Chiral Bulky Î²â€Amino Esters. ChemCatChem, 2021, 13, 3396-3400.	3.7	6
38	A New 3-Ketosteroid-Î”1â€“Dehydrogenase with High Activity and Broad Substrate Scope for Efficient Transformation of Hydrocortisone at High Substrate Concentration. Microorganisms, 2022, 10, 508.	3.6	6
39	Stereocomplementary Synthesis of a Key Intermediate for Tofacitinib via Enzymatic Dynamic Kinetic Resolutionâ€Reductive Amination. Advanced Synthesis and Catalysis, 2022, 364, 2380-2386.	4.3	5
40	Highly Diastereoselective Synthesis of 2,2-Disubstituted Cyclopentane-1,3-diols via Stepwise Ketone Reduction Enabling Concise Chirality Construction. Journal of Organic Chemistry, 2020, 85, 9599-9606.	3.2	4
41	Modulating the active site lid of an alcohol dehydrogenase from Ralstonia sp. enabled efficient stereospecific synthesis of 17Î²-hydroxysteroids. Enzyme and Microbial Technology, 2021, 149, 109837.	3.2	4
42	Efficient Biosynthesis of Ethyl (R)-3-Hydroxyglutarate through a One-Pot Bienzymatic Cascade of Halohydrin Dehalogenase and Nitrilase. ChemCatChem, 2015, 7, 1389-1389.	3.7	1
43	Inverting the Enantiopreference of Nitrilaseâ€Catalyzed Desymmetric Hydrolysis of Prochiral Dinitriles by Reshaping the Binding Pocket with a Mirrorâ€Image Strategy. Angewandte Chemie, 2021, 133, 3723-3728.	2.0	1
44	Engineering a Carbonyl Reductase for Scalable Preparation of (S)â€3â€Cyclopentylâ€3â€hydroxypropanenitrile, the Key Building Block of Ruxolitinib. ChemBioChem, 2022, 23, .	2.6	1
45	Crystal Structures and Catalytic Mechanism of l â€•erythro â€3,5â€Diaminohexanoate Dehydrogenase and Rational Engineering for Asymmetric Synthesis of Î²â€Amino Acids. Angewandte Chemie, 2021, 133, 10291-10298.	2.0	0