DÃ¶rte Rother

List of Publications by Year in descending order

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51	2,204	201674	223800
papers	citations	27 h-index	46 g-index

56	56	56	1916
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In situreactive extraction with oleic acid for process intensification in amine transaminase catalyzed reactions. Green Chemistry, 2022, 24, 295-304.	9.0	9
2	Enzymatic Cascade in a Simultaneous, One-Pot Approach with In Situ Product Separation for the Asymmetric Production of (4S,5S)-Octanediol. Organic Process Research and Development, 2022, 26, 2038-2045.	2.7	9
3	Photo-Regulation of Enzyme Activity: The Inactivation of a Carboligase with Genetically Encoded Photosensitizer Fusion Tags. Frontiers in Catalysis, 2022, 2, .	3.9	3
4	Toward the Sustainable Production of the Active Pharmaceutical Ingredient Metaraminol. ACS Sustainable Chemistry and Engineering, 2022, 10, 5117-5128.	6.7	8
5	Extractivein situproduct removal for the application of naturally produced<scp>l</scp>-alanine as an amine donor in enzymatic metaraminol production. Green Chemistry, 2021, 23, 4892-4901.	9.0	12
6	Applied biocatalysis beyond just buffers â€“ from aqueous to unconventional media. Options and guidelines. Green Chemistry, 2021, 23, 3191-3206.	9.0	81
7	Computer-aided enzymatic retrosynthesis. Nature Catalysis, 2021, 4, 92-93.	34.4	8
8	Production of the Carboxylate Reductase from Nocardia otitidiscaviarum in a Soluble, Active Form for inâ€…vitro Applications. ChemBioChem, 2021, 22, 1823-1832.	2.6	5
9	The Effect of Visible Light on the Catalytic Activity of PLPâ€Dependent Enzymes. ChemCatChem, 2021, 13, 2398-2406.	3.7	9
10	Getting the Most Out of Enzyme Cascades: Strategies to Optimize In Vitro Multi-Enzymatic Reactions. Catalysts, 2021, 11, 1183.	3.5	43
11	Modulation of Transaminase Activity by Encapsulation in Temperatureâ€Sensitive Poly(Nâ€acryloyl) Tj ETQq1 1 0.784314 rgBT	2.6	6
12	Continuous enzymatic stirred tank reactor cascade with unconventional medium yielding high concentrations of (S)-2-hydroxyphenyl propanone and its derivatives. Catalysis Science and Technology, 2021, 11, 7886-7897.	4.1	3
13	Stereoselective Reduction of Prochiral Cyclic 1,3-Diketones Using Different Biocatalysts. Catalysis Letters, 2020, 150, 1176-1185.	2.6	8
14	Benchtop NMR for Online Reaction Monitoring of the Biocatalytic Synthesis of Aromatic Amino Alcohols. ChemCatChem, 2020, 12, 1190-1199.	3.7	12
15	Methoxamine Synthesis in a Biocatalytic 1-Pot 2-Step Cascade Approach. ACS Catalysis, 2019, 9, 7380-7388.	11.2	35
16	Stimulusâ€Responsive Regulation of Enzyme Activity for Oneâ€Step and Multiâ€Step Syntheses. Advanced Synthesis and Catalysis, 2019, 361, 2387-2401.	4.3	54
17	An Enzymatic 2â€Step Cofactor and Coâ€Product Recycling Cascade towards a Chiral 1,2â€Diol. Part I: Cascade Design. Advanced Synthesis and Catalysis, 2019, 361, 2607-2615.	4.3	17
18	Selective aerobic oxidation reactions using a combination of photocatalytic water oxidation and enzymatic oxyfunctionalizations. Nature Catalysis, 2018, 1, 55-62.	34.4	272

#	ARTICLE	IF	CITATIONS
19	Citrate as Cost-Efficient NADPH Regenerating Agent. Frontiers in Bioengineering and Biotechnology, 2018, 6, 196.	4.1	12
20	Four Atom Efficient Enzyme Cascades for All 4-Methoxyphenyl-1,2-propanediol Isomers Including Product Crystallization Targeting High Product Concentrations and Excellent E-Factors. ACS Sustainable Chemistry and Engineering, 2018, 6, 11819-11826.	6.7	22
21	Towards environmentally acceptable synthesis of chiral Î±-hydroxy ketones via oxidase-lyase cascades. Green Chemistry, 2017, 19, 1226-1229.	9.0	24
22	Reductive amination of ketones catalyzed by whole cell biocatalysts containing imine reductases (IREDs). Journal of Biotechnology, 2017, 258, 167-170.	3.8	25
23	Enzymatic and Chemoenzymatic Threeâ€Step Cascades for the Synthesis of Stereochemically Complementary Trisubstituted Tetrahydroisoquinolines. Angewandte Chemie - International Edition, 2017, 56, 12503-12507.	13.8	85
24	Enzymatic and Chemoenzymatic Threeâ€Step Cascades for the Synthesis of Stereochemically Complementary Trisubstituted Tetrahydroisoquinolines. Angewandte Chemie, 2017, 129, 12677-12681.	2.0	21
25	Asymmetric synthesis of (S)-phenylacetylcarbinol â€“ closing a gap in Câ€“C bond formation. Green Chemistry, 2017, 19, 380-384.	9.0	24
26	Modularized Biocatalysis: Immobilization of Whole Cells for Preparative Applications in Microaqueous Organic Solvents. ChemCatChem, 2016, 8, 607-614.	3.7	24
27	Stereoselective Two-Step Biocatalysis in Organic Solvent: Toward All Stereoisomers of a 1,2-Diol at High Product Concentrations. Organic Process Research and Development, 2016, 20, 1744-1753.	2.7	32
28	Application of Imine Reductases (IREDs) in Microâ€Aqueous Reaction Systems. Advanced Synthesis and Catalysis, 2016, 358, 2745-2750.	4.3	36
29	Regioâ€and Stereoselective Aliphaticâ€“Aromatic Crossâ€Benzoin Reaction: Enzymatic Divergent Catalysis. Chemistry - A European Journal, 2016, 22, 13999-14005.	3.3	31
30	BioCatNet: A Database System for the Integration of Enzyme Sequences and Biocatalytic Experiments. ChemBioChem, 2016, 17, 2093-2098.	2.6	32
31	Recent advances in whole cell biocatalysis techniques bridging from investigative to industrial scale. Current Opinion in Biotechnology, 2016, 42, 169-177.	6.6	252
32	Chemoenzymatic Synthesis towards the Active Agent Travoprost. ChemCatChem, 2015, 7, 3125-3130.	3.7	25
33	Multi-step synthesis strategies towards 1,2-amino alcohols with special emphasis on phenylpropanolamines. Journal of Molecular Catalysis B: Enzymatic, 2015, 114, 65-71.	1.8	67
34	(Chemo)enzymatic cascadesâ€”Nature's synthetic strategy transferred to the laboratory. Journal of Molecular Catalysis B: Enzymatic, 2015, 114, 1-6.	1.8	61
35	A Tailorâ€Made Chimeric Thiamine Diphosphate Dependent Enzyme for the Direct Asymmetric Synthesis of (S)â€Benzoins. Angewandte Chemie - International Edition, 2014, 53, 9376-9379.	13.8	32
36	Enantioselective, continuous (R)- and (S)-2-butanol synthesis: Achieving high space-time yields with recombinant E. coli cells in a micro-aqueous, solvent-free reaction system. Journal of Biotechnology, 2014, 191, 106-112.	3.8	25

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37	Wholeâ€Cell Teabag Catalysis for the Modularisation of Synthetic Enzyme Cascades in Microâ€Aqueous Systems. ChemCatChem, 2014, 6, 1051-1058.	3.7	30
38	Structures of Alcohol Dehydrogenases from Ralstonia and Sphingobium spp. Reveal the Molecular Basis for Their Recognition of â€˜Bulkyâ€“Bulkyâ€™ Ketones. Topics in Catalysis, 2014, 57, 356-365.	2.8	48
39	Effective Production of (S)-Î±-Hydroxy ketones: An Reaction Engineering Approach. Topics in Catalysis, 2014, 57, 401-411.	2.8	10
40	A two-step biocatalytic cascade in micro-aqueous medium: using whole cells to obtain high concentrations of a vicinal diol. Green Chemistry, 2014, 16, 3472-3482.	9.0	67
41	Efficient 2-step biocatalytic strategies for the synthesis of all nor(pseudo)ephedrine isomers. Green Chemistry, 2014, 16, 3341-3348.	9.0	66
42	MenD from Bacillus subtilis: A Potent Catalyst for the Enantiocomplementary Asymmetric Synthesis of Functionalized Î±â€Hydroxy Ketones. ChemCatChem, 2014, 6, 1082-1088.	3.7	15
43	Two Steps in One Pot: Enzyme Cascade for the Synthesis of Nor(pseudo)ephedrine from Inexpensive Starting Materials. Angewandte Chemie - International Edition, 2013, 52, 6772-6775.	13.8	157
44	Biochemical characterization of an alcohol dehydrogenase from Ralstonia sp.. Biotechnology and Bioengineering, 2013, 110, 1838-1848.	3.3	41
45	(S)-Selective MenD variants from Escherichia coli provide access to new functionalized chiral Î±-hydroxy ketones. Chemical Communications, 2013, 49, 2061.	4.1	27
46	Engineering stereoselectivity of ThDP-dependent enzymes. FEBS Journal, 2013, 280, 6374-6394.	4.7	72
47	Tailoring the Sâ€Selectivity of 2â€Succinylâ€5â€enolpyruvylâ€6â€hydroxyâ€3â€cyclohexeneâ€1â€carboxylate Synthase (MenD) from Escherichia coli. ChemCatChem, 2013, 5, 3587-3594.	3.7	19
48	Influence of Organic Solvents on Enzymatic Asymmetric Carboligations. Advanced Synthesis and Catalysis, 2012, 354, 2805-2820.	4.3	47
49	Stereoselective synthesis of bulky 1,2-diols with alcohol dehydrogenases. Catalysis Science and Technology, 2012, 2, 1580.	4.1	56
50	TTC-based screening assay for Ï‰-transaminases: A rapid method to detect reduction of 2-hydroxy ketones. Journal of Biotechnology, 2012, 159, 188-194.	3.8	29
51	Sâ€Selective Mixed Carboligation by Structureâ€Based Design of the Pyruvate Decarboxylase from Acetobacter pasteurianus. ChemCatChem, 2011, 3, 1587-1596.	3.7	44