

Martina Pohl

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	From Enzyme to Preparative Cascade Reactions with Immobilized Enzymes: Tuning Fe(II)/ α -Ketoglutarate-Dependent Lysine Hydroxylases for Application in Biotransformations. <i>Catalysts</i> , 2022, 12, 354.	3.5	6
2	Covalently Immobilized 2-Deoxyribose-5-phosphate Aldolase (DERA) for Biocatalysis in Flow: Utilization of the 3-Hydroxyaldehyde Intermediate in Reaction Cascades. <i>ChemCatChem</i> , 2022, 14, .	3.7	5
3	Construction and comprehensive characterization of an E ₁ DCc-CatIB set of varying linkers and aggregation inducing tags. <i>Microbial Cell Factories</i> , 2021, 20, 49.	4.0	12
4	Structural Analysis of a Genetically Encoded FRET Biosensor by SAXS and MD Simulations. <i>Sensors</i> , 2021, 21, 4144.	3.8	6
5	A cascade reaction for the synthesis of d-fagomine precursor revisited: Kinetic insight and understanding of the system. <i>New Biotechnology</i> , 2021, 63, 19-28.	4.4	2
6	Synthesis of α -hydroxy ketones and vicinal diols with the <i>Bacillus licheniformis</i> DSM 13T butane-2,3-diol dehydrogenase. <i>Journal of Biotechnology</i> , 2020, 324, 61-70.	3.8	4
7	XyloSenS – FRET-basierte Biosensoren zur online In-vitro-Überwachung der Substratkonzentration von Kultivierungen. <i>Chemie-Ingenieur-Technik</i> , 2020, 92, 1206-1207.	0.8	0
8	Efficient Nicotinamide Adenine Dinucleotide Phosphate [NADP(H)] Recycling in Closed-Loop Continuous Flow Biocatalysis. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 2894-2901.	4.3	30
9	Synthesis of α -hydroxy ketones and vicinal (<i>R,R</i>)-diols by <i>Bacillus clausii</i> DSM 8716 butanediol dehydrogenase. <i>RSC Advances</i> , 2020, 10, 12206-12216.	3.6	13
10	A FRET-based biosensor for the quantification of glucose in culture supernatants of mL scale microbial cultivations. <i>Microbial Cell Factories</i> , 2019, 18, 143.	4.0	20
11	Impact of Molecular Crowding on Translational Mobility and Conformational Properties of Biological Macromolecules. <i>Journal of Physical Chemistry B</i> , 2019, 123, 4477-4486.	2.6	27
12	Navigating within thiamine diphosphate-dependent decarboxylases: Sequences, structures, functional positions, and binding sites. <i>Proteins: Structure, Function and Bioinformatics</i> , 2019, 87, 774-785.	2.6	2
13	An Enzymatic Step Cofactor and Co-Product Recycling Cascade towards a Chiral 1,2-Diol. Part I: Cascade Design. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 2607-2615.	4.3	17
14	An Enzymatic Step Cofactor and Co-Product Recycling Cascade towards a Chiral 1,2-Diol. Part II: Catalytically Active Inclusion Bodies. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 2616-2626.	4.3	13
15	Tailoring the properties of (catalytically)-active inclusion bodies. <i>Microbial Cell Factories</i> , 2019, 18, 33.	4.0	34
16	Towards a Mechanistic Understanding of Factors Controlling the Stereoselectivity of Transketolase. <i>ChemCatChem</i> , 2018, 10, 2601-2611.	3.7	1
17	Catalytically active inclusion bodies of L-lysine decarboxylase from <i>E. coli</i> for 1,5-diaminopentane production. <i>Scientific Reports</i> , 2018, 8, 5856.	3.3	45
18	Rapid, selective and stable HaloTag-ADH immobilization directly from crude cell extract for the continuous biocatalytic production of chiral alcohols and epoxides. <i>Reaction Chemistry and Engineering</i> , 2018, 3, 8-12.	3.7	35

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19	Closing the gap for efficient immobilization of biocatalysts in continuous processes: HaloTag [®] , [®] fusion enzymes for a continuous enzymatic cascade towards a vicinal chiral diol. <i>Green Chemistry</i> , 2018, 20, 544-552.	9.0	37
20	Tailor-made catalytically active inclusion bodies for different applications in biocatalysis. <i>Catalysis Science and Technology</i> , 2018, 8, 5816-5826.	4.1	24
21	(2 R, 3 R)-Butan-2,3-diol-Dehydrogenase aus <i>Bacillus clausii</i> DSM 8716T - Ein vielversprechender Biokatalysator für die Synthese chiraler 1±-Hydroxyketone/Diole sowie zur Biosensorentwicklung. <i>Chemie-Ingenieur-Technik</i> , 2018, 90, 1278-1278.	0.8	0
22	Single-Molecule Studies on a FRET Biosensor: Lessons from a Comparison of Fluorescent Protein Equipped versus Dye-Labeled Species. <i>Molecules</i> , 2018, 23, 3105.	3.8	2
23	Konzepte zur funktionalen Enzymreinigung und Immobilisierung in einem Schritt. <i>Chemie-Ingenieur-Technik</i> , 2018, 90, 1333-1333.	0.8	0
24	A Synthetic Reaction Cascade Implemented by Colocalization of Two Proteins within Catalytically Active Inclusion Bodies. <i>ACS Synthetic Biology</i> , 2018, 7, 2282-2295.	3.8	36
25	Genetically Encoded Förster Resonance Energy Transfer-Based Biosensors Studied on the Single-Molecule Level. <i>ACS Sensors</i> , 2018, 3, 1462-1470.	7.8	23
26	Structural and Mutagenesis Studies of the Thiamine-Dependent, Ketone-Accepting YerE from <i>Pseudomonas protegens</i> . <i>ChemBioChem</i> , 2018, 19, 2283-2292.	2.6	8
27	Advantages of Hydrogel-Based 3D-Printed Enzyme Reactors and Their Limitations for Biocatalysis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 211.	4.1	52
28	Phenylalanine ammonia lyase from <i>Arabidopsis thaliana</i> (At PAL2): A potent MIO-enzyme for the synthesis of non-canonical aromatic alpha-amino acids. <i>Journal of Biotechnology</i> , 2017, 258, 148-157.	3.8	18
29	Phenylalanine ammonia lyase from <i>Arabidopsis thaliana</i> (At PAL2): A potent MIO-enzyme for the synthesis of non-canonical aromatic alpha-amino acids.. <i>Journal of Biotechnology</i> , 2017, 258, 158-166.	3.8	17
30	Catalytically-active inclusion bodies as carrier-free protein immobilizates for application in biotechnology and biomedicine. <i>Journal of Biotechnology</i> , 2017, 258, 136-147.	3.8	64
31	HaloTag [®] , [®] : Evaluation of a covalent one-step immobilization for biocatalysis. <i>Journal of Biotechnology</i> , 2017, 241, 170-174.	3.8	25
32	(R,R)-Butane-2,3-diol dehydrogenase from <i>Bacillus clausii</i> DSM 8716 T : Cloning and expression of the bdhA-gene, and initial characterization of enzyme. <i>Journal of Biotechnology</i> , 2017, 258, 41-50.	3.8	20
33	Asymmetric synthesis of (S)-phenylacetylcarbinol – closing a gap in C-C bond formation. <i>Green Chemistry</i> , 2017, 19, 380-384.	9.0	24
34	A Toolbox of Genetically Encoded FRET-Based Biosensors for Rapid L-Lysine Analysis. <i>Sensors</i> , 2016, 16, 1604.	3.8	28
35	Fusion of a Coiled-Coil Domain Facilitates the High-Level Production of Catalytically Active Enzyme Inclusion Bodies. <i>ChemCatChem</i> , 2016, 8, 142-152.	3.7	56
36	An Orthogonal Biocatalytic Approach for the Safe Generation and Use of HCN in a Multistep Continuous Preparation of Chiral O-Acetylcyanohydrins. <i>Synlett</i> , 2016, 27, 262-266.	1.8	37

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37	1/4MORE: A microfluidic magnetic oscillation reactor for accelerated parameter optimization in biocatalysis. <i>Journal of Biotechnology</i> , 2016, 231, 174-182.	3.8	10
38	Regio- and Stereoselective Aliphatic-Aromatic Cross-Benzoin Reaction: Enzymatic Divergent Catalysis. <i>Chemistry - A European Journal</i> , 2016, 22, 13999-14005.	3.3	31
39	BioCatNet: A Database System for the Integration of Enzyme Sequences and Biocatalytic Experiments. <i>ChemBioChem</i> , 2016, 17, 2093-2098.	2.6	32
40	Structure-Function Studies on the Chemo- and Stereoselectivity of ThDP-Dependent Enzymes. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1247-1247.	0.8	0
41	Development of New FRET-Based Biosensors for Extracellular Metabolite Analysis. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1403-1404.	0.8	0
42	New Options for Biocatalysis: Merging Purification and Immobilization through Innovative Binding Tags. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1245-1245.	0.8	1
43	FRET-Based Biosensors for Online Measurement of Lysine Production. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1401-1401.	0.8	0
44	Exploring the Sequence-Function Space of ThDP-Dependent Enzymes. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1246-1246.	0.8	0
45	Catalytically Active Inclusion Bodies: A New Carrier-Free Enzyme Immobilization Method. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1247-1247.	0.8	1
46	Enzyme Toolboxes & Reaction Engineering - Solutions for Applied Biocatalysis. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1241-1242.	0.8	0
47	Encapsulation of FRET-based glucose and maltose biosensors to develop functionalized silica nanoparticles. <i>Analyst</i> , 2016, 141, 3982-3984.	3.5	13
48	Purification and simultaneous immobilization of <i>Arabidopsis thaliana</i> hydroxynitrile lyase using a family 2 carbohydrate-binding module. <i>Biotechnology Journal</i> , 2015, 10, 811-819.	3.5	13
49	Expedient Synthesis of C-Aryl Carbohydrates by Consecutive Biocatalytic Benzoin and Aldol Reactions. <i>Chemistry - A European Journal</i> , 2015, 21, 3335-3346.	3.3	13
50	Asymmetric Stetter reactions catalyzed by thiamine diphosphate-dependent enzymes. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 9681-9690.	3.6	20
51	A Tailor-Made Chimeric Thiamine Diphosphate Dependent Enzyme for the Direct Asymmetric Synthesis of (S)-Benzoin. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9376-9379.	13.8	32
52	Effective Production of (S)-Hydroxy ketones: A Reaction Engineering Approach. <i>Topics in Catalysis</i> , 2014, 57, 401-411.	2.8	10
53	Continuous enzymatic carbonylation of benzaldehyde and acetaldehyde in an enzyme ultrafiltration membrane reactor and laminar flow microreactors. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 102, 132-137.	1.8	13
54	An evaluation of genetically encoded FRET-based biosensors for quantitative metabolite analyses in vivo. <i>Journal of Biotechnology</i> , 2014, 191, 250-259.	3.8	31

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55	Efficient 2-step biocatalytic strategies for the synthesis of all nor(pseudo)ephedrine isomers. <i>Green Chemistry</i> , 2014, 16, 3341-3348.	9.0	66
56	MenD from <i>Bacillus subtilis</i> : A Potent Catalyst for the Enantioselective Asymmetric Synthesis of Functionalized β -Hydroxy Ketones. <i>ChemCatChem</i> , 2014, 6, 1082-1088.	3.7	15
57	Two Steps in One Pot: Enzyme Cascade for the Synthesis of Nor(pseudo)ephedrine from Inexpensive Starting Materials. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6772-6775.	13.8	157
58	Biochemical characterization of an alcohol dehydrogenase from <i>Ralstonia</i> sp.. <i>Biotechnology and Bioengineering</i> , 2013, 110, 1838-1848.	3.3	41
59	(S)-Selective MenD variants from <i>Escherichia coli</i> provide access to new functionalized chiral β -hydroxy ketones. <i>Chemical Communications</i> , 2013, 49, 2061.	4.1	27
60	CC bond formation using ThDP-dependent lyases. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 261-270.	6.1	93
61	Advanced in vivo applications of blue light photoreceptors as alternative fluorescent proteins. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 1125-1134.	2.9	25
62	Engineering stereoselectivity of ThDP-dependent enzymes. <i>FEBS Journal</i> , 2013, 280, 6374-6394.	4.7	72
63	Fusion of a Flavin-Based Fluorescent Protein to Hydroxynitrile Lyase from <i>Arabidopsis thaliana</i> Improves Enzyme Stability. <i>Applied and Environmental Microbiology</i> , 2013, 79, 4727-4733.	3.1	14
64	Tailoring the β -Selectivity of 2-Succinyl-5-enolpyruvyl-3-hydroxy-cyclohexene-1-carboxylate Synthase (MenD) from <i>Escherichia coli</i> . <i>ChemCatChem</i> , 2013, 5, 3587-3594.	3.7	19
65	Synthesis of Chiral Cyanohydrins by Recombinant <i>Escherichia coli</i> Cells in a Micro-Aqueous Reaction System. <i>Applied and Environmental Microbiology</i> , 2012, 78, 5025-5027.	3.1	24
66	Influence of Organic Solvents on Enzymatic Asymmetric Carbonylations. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 2805-2820.	4.3	47
67	Stereoselective synthesis of bulky 1,2-diols with alcohol dehydrogenases. <i>Catalysis Science and Technology</i> , 2012, 2, 1580.	4.1	56
68	TTC-based screening assay for α -transaminases: A rapid method to detect reduction of 2-hydroxy ketones. <i>Journal of Biotechnology</i> , 2012, 159, 188-194.	3.8	29
69	A standard numbering scheme for thiamine diphosphate-dependent decarboxylases. <i>BMC Biochemistry</i> , 2012, 13, 24.	4.4	35
70	Tailoring a Stabilized Variant of Hydroxynitrile Lyase from <i>Arabidopsis thaliana</i> . <i>ChemBioChem</i> , 2012, 13, 797-802.	2.6	20
71	Hydroxynitrile Lyases with β -Hydrolase Fold: Two Enzymes with Almost Identical 3D Structures but Opposite Enantioselectivities and Different Reaction Mechanisms. <i>ChemBioChem</i> , 2012, 13, 1932-1939.	2.6	25
72	Entwicklung eines neuen Mikroreaktor-Konzepts für die enzymatische Carbonylation. <i>Chemie-Ingenieur-Technik</i> , 2012, 84, 1397-1397.	0.8	0

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73	Enzymatische Kaskadenreaktionen mit ThDP-abhängigen Lyasen und α -Transaminasen zur nachhaltigen Synthese chiraler Aminoalkohole. <i>Chemie-Ingenieur-Technik</i> , 2012, 84, 1217-1218.	0.8	0
74	Enzymatische Kaskadenreaktionen mit ThDP-abhängigen Lyasen und α -Transaminasen zur nachhaltigen Synthese chiraler Aminoalkohole. <i>Chemie-Ingenieur-Technik</i> , 2012, 84, 1220-1220.	0.8	0
75	Conversion of Pyruvate Decarboxylase into an Enantioselective Carboligase with Biosynthetic Potential. <i>Journal of the American Chemical Society</i> , 2011, 133, 3609-3616.	13.7	69
76	Stereoselective Mixed Carboligation by Structure-Based Design of the Pyruvate Decarboxylase from <i>Acetobacter pasteurianus</i> . <i>ChemCatChem</i> , 2011, 3, 1587-1596.	3.7	44
77	Mechanism of acetaldehyde-induced deactivation of microbial lipases. <i>BMC Biochemistry</i> , 2011, 12, 10.	4.4	33
78	An Efficient Route to Both Enantiomers of <i>allo</i> -Threonine by Simultaneous Amino Acid Racemase-Catalyzed Isomerization of Threonine and Crystallization. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 2431-2438.	4.3	10
79	Stereoselective Reduction of 2-Hydroxy Ketones towards <i>syn</i> - and <i>anti</i> -1,2-Diols. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 2359-2362.	4.3	32
80	Hydroxynitrile Lyase from <i>Arabidopsis thaliana</i> : Identification of Reaction Parameters for Enantiopure Cyanohydrin Synthesis by Pure and Immobilized Catalyst. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 2399-2408.	4.3	33
81	Structure elucidation of the thermal degradation products of the nucleotide cofactors NADH and NADPH by nano-ESI-FTICR-MS and HPLC-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2803-2811.	3.7	31
82	Factors influencing the operational stability of NADPH-dependent alcohol dehydrogenase and an NADH-dependent variant thereof in gas/solid reactors. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 67, 271-283.	1.8	18
83	Entwicklung einer Enzymplattform für die biokatalytische $\text{C}=\text{C}$ -Verknüpfung. <i>Chemie-Ingenieur-Technik</i> , 2010, 82, 81-86.	0.8	2
84	Aufbau von Enzym-Toolboxen für chirale Produkte. <i>Chemie-Ingenieur-Technik</i> , 2010, 82, 1533-1533.	0.8	0
85	Immobilisierung der Hydroxynitril-Lyase aus <i>Arabidopsis thaliana</i> . <i>Chemie-Ingenieur-Technik</i> , 2010, 82, 1532-1532.	0.8	0
86	Charakterisierung von Enzymen zur Synthese chiraler Aminoalkohole. <i>Chemie-Ingenieur-Technik</i> , 2010, 82, 1536-1537.	0.8	0
87	The Enzymatic Asymmetric Conjugate Umpolung Reaction. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6600-6603.	13.8	71
88	Influence of the hydrostatic pressure and pH on the asymmetric 2-hydroxyketone formation catalyzed by <i>Pseudomonas putida</i> benzoylformate decarboxylase and variants thereof. <i>Biotechnology and Bioengineering</i> , 2010, 106, 18-26.	3.3	15
89	Physiological relation between respiration activity and heterologous expression of selected benzoylformate decarboxylase variants in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2010, 9, 76.	4.0	7
90	Asymmetric synthesis of chiral 2-hydroxy ketones by coupled biocatalytic alkene oxidation and CC bond formation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 61, 111-116.	1.8	17

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91	Investigation of the carbonylase activity of thiamine diphosphate-dependent enzymes using kinetic modeling and NMR spectroscopy. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 61, 73-79.	1.8	20
92	Comparative characterisation of thiamin diphosphate-dependent decarboxylases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 61, 30-35.	1.8	42
93	How to overcome limitations in biotechnological processes - examples from hydroxynitrile lyase applications. <i>Trends in Biotechnology</i> , 2009, 27, 599-607.	9.3	65
94	Rationales Enzymdesign für die (S)-selektive Benzoinkondensation. <i>Chemie-Ingenieur-Technik</i> , 2009, 81, 1256-1256.	0.8	0
95	Propion synthesis using thiamine diphosphate-dependent enzymes. <i>Biotechnology Progress</i> , 2009, 25, 132-138.	2.6	10
96	Thiamin diphosphate in biological chemistry: exploitation of diverse thiamin diphosphate-dependent enzymes for asymmetric chemoenzymatic synthesis. <i>FEBS Journal</i> , 2009, 276, 2894-2904.	4.7	135
97	Uneven twins: Comparison of two enantiocomplementary hydroxynitrile lyases with α/β -hydrolase fold. <i>Journal of Biotechnology</i> , 2009, 141, 166-173.	3.8	54
98	Substrate and water adsorption phenomena in a gas/solid enzymatic reactor. <i>Biotechnology Journal</i> , 2009, 4, 712-721.	3.5	5
99	Hydroxynitrile lyase catalyzed cyanohydrin synthesis at high pH-values. <i>Bioprocess and Biosystems Engineering</i> , 2008, 31, 155-161.	3.4	26
100	Rational Protein Design of ThDP-Dependent Enzymes' Engineering Stereoselectivity. <i>ChemBioChem</i> , 2008, 9, 406-412.	2.6	67
101	Enantioselective C-C Bond Ligation Using Recombinant <i>Escherichia coli</i> -Whole-Cell Biocatalysts. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 165-173.	4.3	39
102	α,β -Unsaturated Aldehydes as Substrates for Asymmetric C-C Bond Forming Reactions with Thiamin Diphosphate (ThDP)-Dependent Enzymes. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 759-771.	4.3	46
103	Characterization of Phenylpyruvate Decarboxylase, Involved in Auxin Production of <i>Azospirillum brasilense</i> . <i>Journal of Bacteriology</i> , 2007, 189, 7626-7633.	2.2	110
104	An Activity, Stability and Selectivity Comparison of Propion Synthesis by Thiamine Diphosphate-Dependent Enzymes in a Solid/Gas Bioreactor. <i>ChemBioChem</i> , 2007, 8, 1063-1070.	2.6	23
105	The production of (R)-2-hydroxy-1-phenyl-propan-1-one derivatives by benzaldehyde lyase from <i>Pseudomonas fluorescens</i> in a continuously operated membrane reactor. <i>Biotechnology and Bioengineering</i> , 2007, 96, 835-843.	3.3	32
106	An α -Selective Hydroxynitrile Lyase from <i>Arabidopsis thaliana</i> with an α/β -Hydrolase Fold. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8679-8681.	13.8	77
107	Branched-Chain Keto Acid Decarboxylase from <i>Lactococcus lactis</i> (KdcA), a Valuable Thiamine Diphosphate-Dependent Enzyme for Asymmetric C-C Bond Formation. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 1425-1435.	4.3	49
108	Asymmetric Synthesis of Aliphatic 2-Hydroxy Ketones by Enzymatic Carbonylation of Aldehydes. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 2940-2944.	2.4	51

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109	Process development for enzyme catalysed asymmetric C-C bond formation. <i>Chemical Engineering Science</i> , 2007, 62, 5201-5205.	3.8	14
110	Structure of the branched-chain keto acid decarboxylase (KdcA) from <i>Lactococcus lactis</i> provides insights into the structural basis for the chemoselective and enantioselective carbonylation reaction. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 1217-1224.	2.5	60
111	A high-throughput screening assay for hydroxynitrile lyase activity. <i>Chemical Communications</i> , 2006, , 4201.	4.1	30
112	Reaction Engineering of Benzaldehyde Lyase from <i>Pseudomonas fluorescens</i> Catalyzing Enantioselective C-C Bond Formation. <i>Organic Process Research and Development</i> , 2006, 10, 1172-1177.	2.7	49
113	Characterization of benzaldehyde lyase from <i>Pseudomonas fluorescens</i> : A versatile enzyme for asymmetric C-C bond formation. <i>Bioorganic Chemistry</i> , 2006, 34, 345-361.	4.1	66
114	Novel biocatalysts for white biotechnology. <i>Biotechnology Journal</i> , 2006, 1, 777-786.	3.5	46
115	Preparative enantioselective synthesis of benzoin and (R)-2-hydroxy-1-phenylpropanone using benzaldehyde lyase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2006, 38, 43-47.	1.8	57
116	Factors Mediating Activity, Selectivity, and Substrate Specificity for the Thiamin Diphosphate-Dependent Enzymes Benzaldehyde Lyase and Benzoylformate Decarboxylase. <i>ChemBioChem</i> , 2006, 7, 1928-1934.	2.6	69
117	Identification of Novel Benzoylformate Decarboxylases by Growth Selection. <i>Applied and Environmental Microbiology</i> , 2006, 72, 7510-7517.	3.1	25
118	Exchanging the substrate specificities of pyruvate decarboxylase from <i>Zymomonas mobilis</i> and benzoylformate decarboxylase from <i>Pseudomonas putida</i> . <i>Protein Engineering, Design and Selection</i> , 2005, 18, 345-357.	2.1	80
119	Effect of oxygen limitation and medium composition on <i>Escherichia coli</i> fermentation in shake-flask cultures. <i>Biotechnology Progress</i> , 2004, 20, 1062-1068.	2.6	161
120	A new perspective on thiamine catalysis. <i>Current Opinion in Biotechnology</i> , 2004, 15, 335-342.	6.6	157
121	Thiamin-Diphosphate-Dependent Enzymes: New Aspects of Asymmetric C-C Bond Formation. <i>ChemInform</i> , 2003, 34, no.	0.0	0
122	Alteration of the Substrate Specificity of Benzoylformate Decarboxylase from <i>Pseudomonas putida</i> by Directed Evolution. <i>ChemBioChem</i> , 2003, 4, 721-726.	2.6	55
123	Exploring the Substrate Specificity of Benzoylformate Decarboxylase, Pyruvate Decarboxylase, and Benzaldehyde Lyase. <i>Oxidative Stress and Disease</i> , 2003, , .	0.3	1
124	Enantioselective Syntheses of Hydroxy Ketones via Benzoylformate Decarboxylase and Benzaldehyde Lyase- Catalyzed C-C Bond Formation. <i>Oxidative Stress and Disease</i> , 2003, , .	0.3	0
125	Improving the carbonylase activity of benzoylformate decarboxylase from <i>Pseudomonas putida</i> by a combination of directed evolution and site-directed mutagenesis. <i>Protein Engineering, Design and Selection</i> , 2002, 15, 585-593.	2.1	66
126	The properties of platinum or palladium supported on γ -aluminium trifluoride or magnesium difluoride: catalysts for the hydrodechlorination of 1,1-dichlorotetrafluoroethane. <i>Journal of Materials Chemistry</i> , 2002, 12, 3499-3507.	6.7	17

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127	Thiamin-Diphosphate-Dependent Enzymes: New Aspects of Asymmetric C-C Bond Formation. <i>Chemistry - A European Journal</i> , 2002, 8, 5288-5295.	3.3	162
128	Enantioselective Synthesis of α -Hydroxy Ketones via Benzaldehyde Lyase-Catalyzed C-C Bond Formation Reaction. <i>Advanced Synthesis and Catalysis</i> , 2002, 344, 96.	4.3	166
129	High-throughput assay of (R)-phenylacetylcarbinol synthesized by pyruvate decarboxylase. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 374, 1069-1073.	3.7	24
130	Development of a Donor-Acceptor Concept for Enzymatic Cross-Coupling Reactions of Aldehydes: The First Asymmetric Cross-Benzoin Condensation. <i>Journal of the American Chemical Society</i> , 2002, 124, 12084-12085.	13.7	234
131	Enantioselective synthesis of hydroxy ketones through cleavage and formation of acyloin linkage. Enzymatic kinetic resolution via C-C bond cleavage. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2001, , 633-635.	1.3	112
132	Improved biocatalysts by directed evolution and rational protein design. <i>Current Opinion in Chemical Biology</i> , 2001, 5, 137-143.	6.1	410
133	Continuous production of (R)-phenylacetylcarbinol in an enzyme-membrane reactor using a potent mutant of pyruvate decarboxylase from <i>Zymomonas mobilis</i> . <i>Biotechnology and Bioengineering</i> , 2001, 74, 317-325.	3.3	76
134	Optimization of Biocatalysts for Technical Processes. <i>Engineering in Life Sciences</i> , 2001, 1, 17-20.	3.6	1
135	Studies on the continuous production of (R)-(α)-phenylacetylcarbinol in an enzyme-membrane reactor. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001, 11, 387-396.	1.8	27
136	Improvements of Enzyme Stability and Specificity by Genetic Engineering. , 2001, , 377-382.		0
137	Continuous production of (R)-phenylacetylcarbinol in an enzyme-membrane reactor using a potent mutant of pyruvate decarboxylase from <i>Zymomonas mobilis</i> . <i>Biotechnology and Bioengineering</i> , 2001, 74, 317-25.	3.3	4
138	Benzoylformate Decarboxylase from <i>Pseudomonas putida</i> as Stable Catalyst for the Synthesis of Chiral 2-Hydroxy Ketones. <i>Chemistry - A European Journal</i> , 2000, 6, 1483-1495.	3.3	159
139	Optimierung von Biokatalysatoren für technische Prozesse. <i>Chemie-Ingenieur-Technik</i> , 2000, 72, 883-885.	0.8	5
140	Enantioselective Synthesis of (S)-2-Hydroxypropanone Derivatives by Benzoylformate Decarboxylase Catalyzed C-C Bond Formation. <i>European Journal of Organic Chemistry</i> , 2000, 2000, 2161-2170.	2.4	71
141	Stabilization of NAD-dependent formate dehydrogenase from <i>Candida boidinii</i> by site-directed mutagenesis of cysteine residues. <i>FEBS Journal</i> , 2000, 267, 1280-1289.	0.2	169
142	Benzoylformate Decarboxylase from <i>Pseudomonas putida</i> as Stable Catalyst for the Synthesis of Chiral 2-Hydroxy Ketones. <i>Chemistry - A European Journal</i> , 2000, 6, 1483-1495.	3.3	1
143	Asymmetric benzoin reaction catalyzed by benzoylformate decarboxylase. <i>Tetrahedron: Asymmetry</i> , 1999, 10, 4769-4774.	1.8	93
144	Synthetic potential of thiamin diphosphate-dependent enzymes. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1999, 6, 145-159.	1.8	96

#	ARTICLE	IF	CITATIONS
145	Cloning and expression of (R)-hydroxynitrile lyase from <i>Linum usitatissimum</i> (flax). <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1999, 6, 315-332.	1.8	25
146	Application of α -keto acid decarboxylases in biotransformations. <i>BBA - Proteins and Proteomics</i> , 1998, 1385, 307-322.	2.1	87
147	Active site mutants of pyruvate decarboxylase from <i>Zymomonas mobilis</i> . A site-directed mutagenesis study of L112, I472, I476, E473 and N482. <i>FEBS Journal</i> , 1998, 257, 538-546.	0.2	47
148	Activation of thiamine diphosphate in pyruvate decarboxylase from <i>Zymomonas mobilis</i> . <i>FEBS Letters</i> , 1998, 441, 404-406.	2.8	14
149	Cloning and stabilization of NAD-dependent formate dehydrogenase from <i>Candida boidinii</i> by site-directed mutagenesis. <i>Progress in Biotechnology</i> , 1998, 15, 331-336.	0.2	2
150	Protein design on pyruvate decarboxylase (PDC) by site-directed mutagenesis. <i>Advances in Biochemical Engineering/Biotechnology</i> , 1997, , 15-43.	1.1	15
151	The Replacement of Trp392 by Alanine Influences the Decarboxylase/Carboligase Activity and Stability of Pyruvate Decarboxylase from <i>Zymomonas mobilis</i> . <i>FEBS Journal</i> , 1995, 234, 650-655.	0.2	48
152	Reversible Dissociation and Unfolding of Pyruvate Decarboxylase from <i>Zymomonas mobilis</i> . <i>FEBS Journal</i> , 1994, 224, 651-661.	0.2	30
153	Synthetic peptides as antagonists of the anaphylatoxin C3a. <i>FEBS Journal</i> , 1992, 210, 185-191.	0.2	21
154	Catalytic Asymmetric Synthesis: Section 2.2. , 0, , 298-413.		0