

Volker Sieber

List of Publications by Year in descending order

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147
papers

6,119
citations

87888

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all docs

160
docs citations

160
times ranked

6978
citing authors

#	ARTICLE	IF	CITATIONS
1	Systematic optimization of exopolysaccharide production by <i>Gluconacetobacter</i> sp. and use of (crude) glycerol as carbon source. <i>Carbohydrate Polymers</i> , 2022, 276, 118769.	10.2	6
2	Anodic production of hydrogen peroxide using commercial carbon materials. <i>Applied Catalysis B: Environmental</i> , 2022, 303, 120848.	20.2	25
3	Structural elucidation of the fucose containing polysaccharide of <i>Paenibacillus polymyxa</i> DSM 365. <i>Carbohydrate Polymers</i> , 2022, 278, 118951.	10.2	15
4	Hot Flows: Evolving an Archaeal Glucose Dehydrogenase for Ultrastable Carba-NADP ⁺ Using Microfluidics at Elevated Temperatures. <i>ACS Catalysis</i> , 2022, 12, 1841-1846.	11.2	9
5	Structure-Guided Modulation of the Catalytic Properties of [2Fe ²⁺ 2S] ²⁺ -Dependent Dehydratases. <i>ChemBioChem</i> , 2022, 23, .	2.6	6
6	Design of enzymatic cascade reactors through multi-objective dynamic optimization. <i>Biochemical Engineering Journal</i> , 2022, 181, 108384.	3.6	8
7	Towards a cyanobacterial biorefinery: Carbohydrate fingerprint, biocomposition and enzymatic hydrolysis of <i>Nostoc</i> biomass. <i>Algal Research</i> , 2022, 65, 102744.	4.6	6
8	Water Oxidation to Hydrogen Peroxide on Carbonaceous Materials. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1793-1793.	0.0	0
9	Synthetic Methylophony in Yeasts: Towards a Circular Bioeconomy. <i>Trends in Biotechnology</i> , 2021, 39, 348-358.	9.3	30
10	Rheological characterization of <i>Porphyridium sordidum</i> and <i>Porphyridium purpureum</i> exopolysaccharides. <i>Carbohydrate Polymers</i> , 2021, 253, 117237.	10.2	13
11	Sustainable Chemistry – An Interdisciplinary Matrix Approach. <i>ChemSusChem</i> , 2021, 14, 251-265.	6.8	4
12	Converging conversion – using promiscuous biocatalysts for the cell-free synthesis of chemicals from heterogeneous biomass. <i>Green Chemistry</i> , 2021, 23, 3656-3663.	9.0	12
13	Design of a synthetic enzyme cascade for the <i>in vitro</i> fixation of a C ₁ carbon source to a functional C ₄ sugar. <i>Green Chemistry</i> , 2021, 23, 6583-6590.	9.0	17
14	A Structural View on the Stereospecificity of Plant Borneol-Type Dehydrogenases. <i>ChemCatChem</i> , 2021, 13, 2262-2277.	3.7	9
15	Engineering of a borneol dehydrogenase from <i>P. putida</i> for the enzymatic resolution of camphor. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 3159-3167.	3.6	3
16	Enhanced C ₂ and C ₃ Product Selectivity in Electrochemical CO ₂ Reduction on Carbon-Doped Copper Oxide Catalysts Prepared by Deep Eutectic Solvent Calcination. <i>Catalysts</i> , 2021, 11, 542.	3.5	4
17	carba-Nicotinamid-Adenin-Dinukleotid-Phosphat: Robuster Cofaktor für die Redox-Biokatalyse. <i>Angewandte Chemie</i> , 2021, 133, 14822-14828.	2.0	4
18	carba Nicotinamide Adenine Dinucleotide Phosphate: Robust Cofactor for Redox Biocatalysis. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14701-14706.	13.8	22

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19	Simple Plug&In Synthetic Step for the Synthesis of (â)â€Camphor from Renewable Starting Materials. ChemBioChem, 2021, 22, 2951-2956.	2.6	6
20	Bioelectrocatalytic Cofactor Regeneration Coupled to CO ₂ Fixation in a Redoxâ€Active Hydrogel for Stereoselective CâC Bond Formation. Angewandte Chemie - International Edition, 2021, 60, 21056-21061.	13.8	32
21	Bioelektrokatalytische Cofaktorâ€Regeneration und CO ₂ â€Fixierung in einem redoxaktiven Hydrogel durch stereoselektive CâC-BindungsknÃ¼pfung. Angewandte Chemie, 2021, 133, 21224-21230.	2.0	7
22	Titelbild: Bioelektrokatalytische Cofaktorâ€Regeneration und CO ₂ â€Fixierung in einem redoxaktiven Hydrogel durch stereoselektive CâC-BindungsknÃ¼pfung (Angew. Chem. 38/2021). Angewandte Chemie, 2021, 133, 20733-20733.	2.0	0
23	A novel approach to study cellulose digestion kinetics in biogas fermentation applying feed-stop method and artificial medium to investigate effects of saccharides. Bioresource Technology Reports, 2021, 15, 100757.	2.7	0
24	Land and sea: Addressing the challenges facing inter-regional ecosystems in developing a sustainable bioeconomy. EFB Bioeconomy Journal, 2021, 1, 100017.	2.4	1
25	Development of a Cofactor Balanced, Multi Enzymatic Cascade Reaction for the Simultaneous Production of L-Alanine and L-Serine from 2-Keto-3-deoxy-gluconate. Catalysts, 2021, 11, 31.	3.5	4
26	Electrochemical CO ₂ reduction to formate on indium catalysts prepared by electrodeposition in deep eutectic solvents. Electrochemistry Communications, 2020, 110, 106597.	4.7	39
27	Molecular cloning and functional characterization of a two highly stereoselective borneol dehydrogenases from Salvia officinalis L. Phytochemistry, 2020, 172, 112227.	2.9	11
28	Pyrolysis of Deep Eutectic Solvents for the Preparation of Supported Copper Electrocatalysts. ChemistrySelect, 2020, 5, 11714-11720.	1.5	3
29	Metabolic engineering for production of functional polysaccharides. Current Opinion in Biotechnology, 2020, 66, 44-51.	6.6	28
30	Characterization of highly active 2-keto-3-deoxy-L-arabinonate and 2-keto-3-deoxy-D-xylonate dehydratases in terms of the biotransformation of hemicellulose sugars to chemicals. Applied Microbiology and Biotechnology, 2020, 104, 7023-7035.	3.6	5
31	Rheology of sphingans in EPSâ€surfactant systems. Carbohydrate Polymers, 2020, 248, 116778.	10.2	14
32	Novel Prokaryotic CRISPR-Cas12a-Based Tool for Programmable Transcriptional Activation and Repression. ACS Synthetic Biology, 2020, 9, 3353-3363.	3.8	19
33	Engineering of the 2,3-butanediol pathway of Paenibacillus polymyxa DSM 365. Metabolic Engineering, 2020, 61, 381-388.	7.0	35
34	Characterization and comparison of Porphyridium sordidum and Porphyridium purpureum concerning growth characteristics and polysaccharide production. Algal Research, 2020, 49, 101931.	4.6	29
35	Activated carbon as catalyst support: precursors, preparation, modification and characterization. Beilstein Journal of Organic Chemistry, 2020, 16, 1188-1202.	2.2	81
36	Molecular Dynamics Analysis of a Rationally Designed Aldehyde Dehydrogenase Gives Insights into Improved Activity for the Non-Native Cofactor NAD ⁺ . ACS Synthetic Biology, 2020, 9, 920-929.	3.8	13

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37	Optimization of growth and EPS production in two <i>Porphyridum</i> strains. <i>Bioresource Technology Reports</i> , 2020, 11, 100486.	2.7	9
38	Production of Propene from <i>n</i> -Butanol: A Three-Step Cascade Utilizing the Cytochrome P450 Fatty Acid Decarboxylase OleT _{JE} . <i>ChemBioChem</i> , 2020, 21, 3273-3281.	2.6	13
39	Biobased chiral semi-crystalline or amorphous high-performance polyamides and their scalable stereoselective synthesis. <i>Nature Communications</i> , 2020, 11, 509.	12.8	47
40	Enabling the Direct Enzymatic Dehydration of <i>d</i> -Glycerate to Pyruvate as the Key Step in Synthetic Enzyme Cascades Used in the Cell-Free Production of Fine Chemicals. <i>ACS Catalysis</i> , 2020, 10, 3110-3118.	11.2	22
41	Development of an Improved Peroxidase-Based High-Throughput Screening for the Optimization of <i>D</i> -Glycerate Dehydratase Activity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 335.	4.1	6
42	Optimization of a reduced enzymatic reaction cascade for the production of L-alanine. <i>Scientific Reports</i> , 2019, 9, 11754.	3.3	23
43	Mechanical and Thermal Properties of Mixed-Tacticity Polyhydroxybutyrates and Their Association with Iso- and Atactic Chain Segment Length Distributions. <i>Macromolecules</i> , 2019, 52, 5407-5418.	4.8	6
44	Electrochemical synthesis of hydrogen peroxide from water and oxygen. <i>Nature Reviews Chemistry</i> , 2019, 3, 442-458.	30.2	544
45	New Bio-Polyamides from Terpenes: \pm -Pinene and (+)-Carene as Valuable Resources for Lactam Production. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800903.	3.9	28
46	A Bifunctional UDP-Sugar 4-Epimerase Supports Biosynthesis of Multiple Cell Surface Polysaccharides in <i>Sinorhizobium meliloti</i> . <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	19
47	In-depth rheological characterization of genetically modified xanthan-variants. <i>Carbohydrate Polymers</i> , 2019, 213, 236-246.	10.2	28
48	Overall Nutritional and Sensory Profile of Different Species of Australian Wattle Seeds (<i>Acacia</i> spp.): Potential Food Sources in the Arid Semi-Arid Regions. <i>Foods</i> , 2019, 8, 482.	4.3	22
49	To beat the heat – engineering of the most thermostable pyruvate decarboxylase to date. <i>RSC Advances</i> , 2019, 9, 29743-29746.	3.6	6
50	The Bacterial Glycome: From Monomers to Complex Carbohydrate Polymers. , 2019, , .		0
51	Biomimetic cofactors and methods for their recycling. <i>Current Opinion in Chemical Biology</i> , 2019, 49, 59-66.	6.1	45
52	Dataset on the structural characterization of organosolv lignin obtained from ensiled Poaceae grass and load-dependent molecular weight changes during thermoplastic processing. <i>Data in Brief</i> , 2018, 17, 647-652.	1.0	6
53	Multienzyme Cascade Reactions – Status and Recent Advances. <i>ACS Catalysis</i> , 2018, 8, 2385-2396.	11.2	250
54	Screening of c-di-GMP-Regulated Exopolysaccharides in Host Interacting Bacteria. <i>Methods in Molecular Biology</i> , 2018, 1734, 263-275.	0.9	6

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55	Colorimetric Determination of Sulfate via an Enzyme Cascade for High-Throughput Detection of Sulfatase Activity. <i>Analytical Chemistry</i> , 2018, 90, 2526-2533.	6.5	22
56	Effects of high-lignin-loading on thermal, mechanical, and morphological properties of bioplastic composites. <i>Composite Structures</i> , 2018, 189, 349-356.	5.8	32
57	Recent Advances in the Direct Synthesis of Hydrogen Peroxide Using Chemical Catalysisâ€”A Review. <i>Catalysts</i> , 2018, 8, 379.	3.5	87
58	ChiBio: An Integrated Bio-refinery for Processing Chitin-Rich Bio-waste to Specialty Chemicals. <i>Grand Challenges in Biology and Biotechnology</i> , 2018, , 555-578.	2.4	22
59	Structureâ€”Guided Engineering of Î±â€”Keto Acid Decarboxylase for the Production of Higher Alcohols at Elevated Temperature. <i>ChemSusChem</i> , 2018, 11, 3335-3344.	6.8	13
60	Structures of Mixed-Tacticity Polyhydroxybutyrates. <i>Macromolecules</i> , 2018, 51, 5001-5010.	4.8	10
61	Substrate scope of a dehydrogenase from <i>Sphingomonas</i> species A1 and its potential application in the synthesis of rare sugars and sugar derivatives. <i>Microbial Biotechnology</i> , 2018, 11, 747-758.	4.2	6
62	Biosynthesis of poly-3-hydroxybutyrate from grass silage by a two-stage fermentation process based on an integrated biorefinery concept. <i>Bioresource Technology</i> , 2018, 269, 237-245.	9.6	12
63	Rheological characterization of the exopolysaccharide Paenan in surfactant systems. <i>Carbohydrate Polymers</i> , 2018, 181, 719-726.	10.2	28
64	In vitro metabolic engineering for the production of Î±-ketoglutarate. <i>Metabolic Engineering</i> , 2017, 40, 5-13.	7.0	60
65	A Modular Toolkit for Generating <i>Pichia pastoris</i> Secretion Libraries. <i>ACS Synthetic Biology</i> , 2017, 6, 1016-1025.	3.8	84
66	Development of a lipase-mediated epoxidation process for monoterpenes in choline chloride-based deep eutectic solvents. <i>Green Chemistry</i> , 2017, 19, 2576-2586.	9.0	43
67	Quantitative assay of Î²-(1,3)-Î²-(1,6)-glucans from fermentation broth using aniline blue. <i>Carbohydrate Polymers</i> , 2017, 174, 57-64.	10.2	9
68	Probing the adhesion properties of alginate hydrogels: a new approach towards the preparation of soft colloidal probes for direct force measurements. <i>Soft Matter</i> , 2017, 13, 578-589.	2.7	18
69	Effects of glucose concentration on 1,18-cis-octadec-9-enedioic acid biotransformation efficiency and lipid body formation in <i>Candida tropicalis</i> . <i>Scientific Reports</i> , 2017, 7, 13842.	3.3	14
70	Development of semi-continuous chemo-enzymatic terpene epoxidation: combination of anthraquinone autooxidation and the lipase-mediated epoxidation process. <i>Reaction Chemistry and Engineering</i> , 2017, 2, 885-895.	3.7	12
71	Deacidification of grass silage press juice by continuous production of acetoin from its lactate via an immobilized enzymatic reaction cascade. <i>Bioresource Technology</i> , 2017, 245, 1084-1092.	9.6	9
72	Lipase-catalyzed synthesis of sucrose monoester: Increased productivity by combining enzyme pretreatment and non-aqueous biphasic medium. <i>Journal of Biotechnology</i> , 2017, 259, 182-190.	3.8	25

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73	Characterization of Biomimetic Cofactors According to Stability, Redox Potentials, and Enzymatic Conversion by NADH Oxidase from <i>Lactobacillus pentosus</i> . <i>ChemBioChem</i> , 2017, 18, 1944-1949.	2.6	35
74	Production of dodecanedioic acid via biotransformation of low cost plant-oil derivatives using <i>Candida tropicalis</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017, 44, 1491-1502.	3.0	41
75	Chemoenzymatic Synthesis of a Novel Borneol-Based Polyester. <i>ChemSusChem</i> , 2017, 10, 3574-3580.	6.8	18
76	Preparation of Supported Palladium Catalysts using Deep Eutectic Solvents. <i>Chemistry - A European Journal</i> , 2017, 23, 12467-12470.	3.3	18
77	Thermostabilization of the uronate dehydrogenase from <i>Agrobacterium tumefaciens</i> by semi-rational design. <i>AMB Express</i> , 2017, 7, 103.	3.0	12
78	Enzymatic Reduction of Nicotinamide Biomimetic Cofactors Using an Engineered Glucose Dehydrogenase: Providing a Regeneration System for Artificial Cofactors. <i>ACS Catalysis</i> , 2017, 7, 5202-5208.	11.2	74
79	Tailor-made exopolysaccharides via CRISPR-Cas9 mediated genome editing in <i>Paenibacillus polymyxa</i> . <i>Synthetic Biology</i> , 2017, 2, ysx007.	2.2	45
80	In Vitro Bioconversion of Pyruvate to n-Butanol with Minimized Cofactor Utilization. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016, 4, 74.	4.1	21
81	Bacterial Glycosyltransferases: Challenges and Opportunities of a Highly Diverse Enzyme Class Toward Tailoring Natural Products. <i>Frontiers in Microbiology</i> , 2016, 7, 182.	3.5	86
82	Editorial: Microbial Exopolysaccharides: From Genes to Applications. <i>Frontiers in Microbiology</i> , 2016, 7, 308.	3.5	15
83	Metal Ions Play an Essential Catalytic Role in the Mechanism of Ketolactone Acid Reductoisomerase. <i>Chemistry - A European Journal</i> , 2016, 22, 7427-7436.	3.3	30
84	Crystal structure of <i>Mycobacterium tuberculosis</i> ketolactone acid reductoisomerase at 1.0 Å resolution: a potential target for anti-tuberculosis drug discovery. <i>FEBS Journal</i> , 2016, 283, 1184-1196.	4.7	33
85	Draft Genome Sequence of <i>Lysinibacillus xylanilyticus</i> SR-86. <i>Genome Announcements</i> , 2016, 4, .	0.8	0
86	Controlled production of polysaccharides exploiting nutrient supply for levan and heteropolysaccharide formation in <i>Paenibacillus</i> sp.. <i>Carbohydrate Polymers</i> , 2016, 148, 326-334.	10.2	53
87	Revealing the diversity of algal monosaccharides: Fast carbohydrate fingerprinting of microalgae using crude biomass and showcasing sugar distribution in <i>Chlorella vulgaris</i> by biomass fractionation. <i>Algal Research</i> , 2016, 17, 227-235.	4.6	37
88	Reaction Design for the Compartmented Combination of Heterogeneous and Enzyme Catalysis. <i>ACS Catalysis</i> , 2016, 6, 6329-6334.	11.2	45
89	Optimization of the lipase mediated epoxidation of monoterpenes using the design of experiments Taguchi method. <i>Process Biochemistry</i> , 2016, 51, 1479-1485.	3.7	28
90	Automated Modular High Throughput Exopolysaccharide Screening Platform Coupled with Highly Sensitive Carbohydrate Fingerprint Analysis. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	10

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91	Identification and characterization of two new 5-keto-4-deoxy-D-Glucarate Dehydratases/Decarboxylases. BMC Biotechnology, 2016, 16, 80.	3.3	9
92	Integrated biorefinery concept for grass silage using a combination of adapted pulping methods for advanced saccharification and extraction of lignin. Bioresource Technology, 2016, 216, 462-470.	9.6	17
93	A one-stage cultivation process for lipid- and carbohydrate-rich biomass of <i>Scenedesmus obtusiusculus</i> based on artificial and natural water sources. Bioresource Technology, 2016, 218, 498-504.	9.6	15
94	Identification of amino acid networks governing catalysis in the closed complex of class I terpene synthases. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E958-67.	7.1	57
95	Characterization of uronate dehydrogenases catalysing the initial step in an oxidative pathway. Microbial Biotechnology, 2015, 8, 633-643.	4.2	18
96	Crystallization behaviour of glyceraldehyde dehydrogenase from <i>Thermoplasma acidophilum</i> . Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 1475-1480.	0.8	1
97	Crystallization and structural characterization of glyceraldehyde dehydrogenase from <i>Thermoplasma acidophilum</i> . Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s222-s223.	0.1	0
98	Enzymatic Transformations Involved in the Biosynthesis of Microbial Exopolysaccharides Based on the Assembly of Repeat Units. ChemBioChem, 2015, 16, 1141-1147.	2.6	38
99	A water-forming NADH oxidase from <i>Lactobacillus pentosus</i> suitable for the regeneration of synthetic biomimetic cofactors. Frontiers in Microbiology, 2015, 6, 957.	3.5	67
100	Methods to identify the unexplored diversity of microbial exopolysaccharides. Frontiers in Microbiology, 2015, 06, 565.	3.5	51
101	High throughput exopolysaccharide screening platform: From strain cultivation to monosaccharide composition and carbohydrate fingerprinting in one day. Carbohydrate Polymers, 2015, 122, 212-220.	10.2	45
102	A one pot reaction cascade of in situ hydrogen peroxide production and lipase mediated in situ production of peracids for the epoxidation of monoterpenes. Journal of Molecular Catalysis B: Enzymatic, 2015, 114, 72-76.	1.8	18
103	Characterization of recombinantly expressed dihydroxy-acid dehydratase from <i>Sulfobus solfataricus</i> – A key enzyme for the conversion of carbohydrates into chemicals. Journal of Biotechnology, 2015, 211, 31-41.	3.8	28
104	Bacterial exopolysaccharides: biosynthesis pathways and engineering strategies. Frontiers in Microbiology, 2015, 6, 496.	3.5	409
105	Photobiocatalytic decarboxylation for olefin synthesis. Chemical Communications, 2015, 51, 1918-1921.	4.1	97
106	Effect of biotechnologically modified alginates on LDH structures. Bioinspired, Biomimetic and Nanobiomaterials, 2015, 4, 174-186.	0.9	1
107	Draft Genome Sequence of <i>Kozakia baliensis</i> SR-745, the First Sequenced <i>Kozakia</i> Strain from the Family <i>Acetobacteraceae</i> . Genome Announcements, 2014, 2, .	0.8	4
108	Fast carbohydrate analysis via liquid chromatography coupled with ultra violet and electrospray ionization ion trap detection in 96-well format. Journal of Chromatography A, 2014, 1350, 44-50.	3.7	59

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109	Toward one-pot lipase-catalyzed synthesis of poly(ϵ -caprolactone) particles in aqueous dispersion. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 113, 254-260.	5.0	15
110	Mediated electron transfer with monooxygenases—Insight in interactions between reduced mediators and the co-substrate oxygen. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 108, 51-58.	1.8	23
111	Improving the NADH-cofactor specificity of the highly active AdhZ3 and AdhZ2 from <i>Escherichia coli</i> K-12. <i>Journal of Biotechnology</i> , 2014, 189, 157-165.	3.8	16
112	A comparison of genes involved in sphingan biosynthesis brought up to date. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 7719-7733.	3.6	47
113	Enzymatic synthesis of amino sugar fatty acid esters. <i>European Journal of Lipid Science and Technology</i> , 2014, 116, 423-428.	1.5	17
114	Enzymatic Decarboxylation—An Emerging Reaction for Chemicals Production from Renewable Resources. <i>ChemCatChem</i> , 2014, 6, 689-701.	3.7	52
115	Effects of Selected Yeast Extract Compounds on 2,3-Butanediol Production by <i>Paenibacillus polymyxa</i> DSM 365. <i>Current Biotechnology</i> , 2014, 3, 157-165.	0.4	0
116	Encapsulation of Living <i>E. coli</i> Cells in Hollow Polymer Microspheres of Highly Defined Size. <i>Biomacromolecules</i> , 2013, 14, 207-214.	5.4	31
117	Novel CAD-like enzymes from <i>Escherichia coli</i> K-12 as additional tools in chemical production. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 5815-5824.	3.6	42
118	Biocatalytic Synthesis of a Diketobornane as a Building Block for Bifunctional Camphor Derivatives. <i>ChemCatChem</i> , 2013, 5, 3351-3357.	3.7	18
119	Biosynthesis —debugged—: Novel bioproduction strategies. <i>Engineering in Life Sciences</i> , 2013, 13, 4-18.	3.6	51
120	Analysis of lignocellulose derived phenolic monomers by headspace solid-phase microextraction and gas chromatography. <i>Journal of Chromatography A</i> , 2013, 1307, 144-157.	3.7	9
121	Improvement of thermostable aldehyde dehydrogenase by directed evolution for application in Synthetic Cascade Biomanufacturing. <i>Enzyme and Microbial Technology</i> , 2013, 53, 307-314.	3.2	33
122	Lipase-catalyzed interfacial polymerization of γ -pentadecalactone in aqueous biphasic medium: A mechanistic study. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 88, 69-76.	1.8	18
123	Enzymatic cleavage of lignin β -O-4 aryl ether bonds via net internal hydrogen transfer. <i>Green Chemistry</i> , 2013, 15, 1373.	9.0	103
124	Refolding of a Thermostable Glyceraldehyde Dehydrogenase for Application in Synthetic Cascade Biomanufacturing. <i>PLoS ONE</i> , 2013, 8, e70592.	2.5	14
125	Lipase-mediated Epoxidation of the Cyclic Monoterpene Limonene to Limonene Oxide and Limonene Dioxide. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2012, 67, 1056-1060.	0.7	17
126	Cell-Free Metabolic Engineering: Production of Chemicals by Minimized Reaction Cascades. <i>ChemSusChem</i> , 2012, 5, 2165-2172.	6.8	219

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127	Enhanced fed-batch fermentation of 2,3-butanediol by <i>Paenibacillus polymyxa</i> DSM 365. <i>Bioresource Technology</i> , 2012, 124, 237-244.	9.6	99
128	Solubilization of hemicellulose and lignin from wheat straw through microwave-assisted alkali treatment. <i>Industrial Crops and Products</i> , 2012, 39, 198-203.	5.2	83
129	Removal of monomer delignification products by laccase from <i>Trametes versicolor</i> . <i>Bioresource Technology</i> , 2012, 104, 298-304.	9.6	54
130	Selective epoxidation of (+)-limonene employing methyltrioxorhenium as catalyst. <i>Journal of Molecular Catalysis A</i> , 2012, 358, 159-165.	4.8	25
131	Scleroglucan: biosynthesis, production and application of a versatile hydrocolloid. <i>Applied Microbiology and Biotechnology</i> , 2011, 91, 937-947.	3.6	85
132	Epoxidation of \pm -pinene catalyzed by methyltrioxorhenium(VII): Influence of additives, oxidants and solvents. <i>Journal of Molecular Catalysis A</i> , 2011, 340, 9-14.	4.8	32
133	Transcriptome sequencing and comparative transcriptome analysis of the scleroglucan producer <i>Sclerotium rolfsii</i> . <i>BMC Genomics</i> , 2010, 11, 329.	2.8	33
134	Biochemie 2009. <i>Nachrichten Aus Der Chemie</i> , 2010, 58, 300-313.	0.0	0
135	The genome of <i>Xanthomonas campestris</i> pv. <i>campestris</i> B100 and its use for the reconstruction of metabolic pathways involved in xanthan biosynthesis. <i>Journal of Biotechnology</i> , 2008, 134, 33-45.	3.8	238
136	Systematics and genetic variation in commercial shape <i>Kappaphycus</i> and shape <i>Eucheuma</i> (Solieriaceae.) Tj ETQq0,0,0 rgBT /Overlock 1	2.8	85
137	Sequence Homology-Independent Protein Recombination (SHIPREC). , 2003, 231, 153-164.		15
138	Functional Expression of a Fungal Laccase in <i>Saccharomyces cerevisiae</i> by Directed Evolution. <i>Applied and Environmental Microbiology</i> , 2003, 69, 987-995.	3.1	254
139	Selection for Soluble Proteins via Fusion with Chloramphenicol Acetyltransferase. , 2003, 230, 45-56.		3
140	Proside A Phage-Based Method for Selecting Thermostable Proteins. , 2003, 230, 57-70.		23
141	In-vitro Selection of Highly Stabilized Protein Variants with Optimized Surface. <i>Journal of Molecular Biology</i> , 2001, 309, 717-726.	4.2	97
142	Libraries of hybrid proteins from distantly related sequences. <i>Nature Biotechnology</i> , 2001, 19, 456-460.	17.5	226
143	Selecting proteins with improved stability by a phage-based method. <i>Nature Biotechnology</i> , 1998, 16, 955-960.	17.5	192
144	Surface-exposed phenylalanines in the RNP1/RNP2 motif stabilize the cold-shock protein CspB from <i>Bacillus subtilis</i> . , 1998, 30, 401-406.		52

#	ARTICLE	IF	CITATIONS
145	Sequence Profile of the Parallel β^2 Helix in the Pectate Lyase Superfamily. Journal of Structural Biology, 1998, 122, 223-235.	2.8	39
146	Interactions Contributing to the Formation of a β^2 -Hairpin-like Structure in a Small Peptide. Biochemistry, 1996, 35, 181-188.	2.5	63
147	Circular dichroism of the parallel β^2 helical proteins pectate lyase C and E. Proteins: Structure, Function and Bioinformatics, 1995, 23, 32-37.	2.6	31